



United States of America  
Department of Transportation  
Federal Aviation Administration

# Supplemental Type Certificate

Number SA04137AT

This certificate issued to: Aero Avionics, Inc.  
704 Rod Sullivan Rd  
Sanford, NC 27330

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 23 of the Federal Aviation Regulations.

Original Product – Type Certificate	Number:	A24CE
	Make:	Beechcraft
	Model:	B300C

*Description of Type Design Change:* Installation of FLIR Systems Star Safire forward looking infrared radar turret, operating system and monitors in accordance with AeroServices Master Data List Report AS-300C-010 Revision D dated March 4, 2014, or later FAA approved revision. Airplane Flight Manual Supplement (AFMS), Aero Avionics, Inc. AFMS 001 Initial Release dated March 18, 2013, or later FAA approved revision, is part of this STC. Note: When operated in accordance with limitations in the AFMS, the design change has been found to produce No Acoustical Change. Instructions for Continued Airworthiness (ICA) AeroServices Report AS-300-5 Initial Release dated Mar 1, 2013, or later FAA approved revision, is part of this STC and must be incorporated into the operator's maintenance program.

See Continuation Sheet (Page 2)

*This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, and revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.*

Date of application: December 4, 2010  
Date of issuance: March 17, 2014

Date reissued:  
Date amended:

*By direction of the Administrator*

Signature \_\_\_\_\_

Melvin D. Taylor

Title \_\_\_\_\_

Manager, Atlanta Aircraft Certification Office

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).



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# Supplemental Type Certificate

(Continuation Sheet)

Number SA04137AT

Date of issuance: March 17, 2014

Date reissued:

Date amended:

## Limitations and Conditions:

1. All Lasers in the FLIR Star Safire Turret System must be disabled, the laser control panel removed, the power cable tied back and a placard installed on the Operator's Console that reads "Powering and use of LASER prohibited. Activation, powering, and operation of Laser is not FAA approved. Additional type design approval is required before LASER can be powered and operated. Powering and use of LASER prohibited".
2. Beechcraft B300C airplanes modified for increased gross weight in accordance with Beechcraft drawing 130M00030 or Beechcraft Kit Drawing 130-4014, or other FAA approved modifications for increased gross weight, are not eligible for installation of this STC.
3. This STC is limited to Beechcraft B300C aircraft with Raisbeck Engineering STC SA5151NM as amended June 15, 2009, or later amendment, installed, or concurrently installed.
4. The compatibility of this design change with previously approved modification(s) must be determined by the installer.

## Certification Basis:

Based upon 14 CFR §§ 21.115 and 21.101 and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for Beechcraft Model B300C aircraft modified by this STC is as follows:

- a. The type certification basis for parts not changed or not affected by the change is shown on TCDS A24CE.
- b. The type certification basis for parts changed or affected by the change since the reference date of application, December 4, 2010 is 14 CFR Part 23 as amended by Amendments 23-1 through 23-59 is determined to be:

### Regulations at the latest amendment 23-0 through 23-59

23.1, 23.29, 23.171, 23.173, 23.301, 23.303, 23.305, 23.307, 23.333, 23.335, 23.337, 23.341, 23.365, 23.561, 23.571, 23.573, 23.574, 23.575, 23.601, 23.603, 23.605, 23.607, 23.609, 23.611, 23.613, 23.623, 23.625, 23.783(a)(c)(d), 23.785(b)(d)(e)(g), 23.787(a)(b), 23.791(a)(b), 23.803(b), 23.807(a)(b), 23.811(a), 23.812(a), 23.813(a)(b), 23.815(b), 23.831(a)(b), 23.855(a)(b)(c), 23.867(a)(b)(c), 23.1301, 23.1308, 23.1309(a)(b)(c)(d)(e), 23.1351(a)(1)(2)(i), 23.1357(a), 23.1359, 23.1365(a)(b)(c)(d), 23.1367, 23.1431(a)(b), 23.1445(a)(b), 23.1447(a)(d)(f), 23.1449, 23.1501, 23.1505(a)(b), 23.1529, 23.1541(a)(b), 23.1545(a)(b)(c), 23.1557(a), 23.1563(a), 23.1581(a)(b), 23.1583(a)(c)(d)(f)(g)(k)(l), 23.1585, 23.1587

### Regulations at the amendment level in TCDS A24CE

23.45(a)(b)(c)(e)(f)(Amdt 23-34), 23.49(a)(c)(d)(e)(2)(Amdt 23-21), 23.51(a)(c)(d)(Amdt 23-34), 23.65(Amdt 23-34), 23.67(Amdt 23-34), 23.75(Amdt 23-34), 23.77(c)(Amdt 23-34), 23.141(Amdt 23-17), 23.143(Amdt 23-17), 23.145(Amdt 23-17), 23.147(Amdt 23-0), 23.149(a)(c)(d)(Amdt 23-21), 23.153(Amdt 23-14), 23.155(Amdt 23-14), 23.157(Amdt 23-14), 23.161(Amdt 23-34), 23.175(Amdt 23-34), 23.177(a)(Amdt 23-21), 23.181(Amdt 23-21), 23.201(Amdt 23-45), 23.203(Amdt 23-45), 23.205(Amdt 23-45), 23.207(Amdt 23-45), 23.233(Amdt 23-0), 23.251(Amdt 23-0), 23.253(Amdt 23-26), 23.1419(a)(Amdt 23-14)

### Regulations at an intermediate amendment

None

- c. The type certification basis for 14 CFR Part 36 is shown on TCDS A24CE – No Acoustical Change in accordance with 14 CFR Part 21, Regulation 21.93(b) at Amendment 21-97 when operated in accordance with limitations in Aero Avionics, Inc. AFMS 001 Initial Release dated March 18, 2013.

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**SUPPLEMENTAL TYPE CERTIFICATE, FAA FORM 8110-2  
(CONTINUED)**

INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Aircraft Certification Office of the transfer of this Supplemental Type Certificate. The FAA will reissue the certificate in the name of the transferee and forward it to him.

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***TRANSFER ENDORSEMENT***

*Transfer the ownership of Supplemental Type Certificate Number: SA04137AT*

**To** *(Name of transferee)*

*(Address of transferee)*  
*(Number and street)*

*(City, State, and ZIP Code)*

**From** *(Name of grantor)*

*(Address of grantor)*  
*(Number and street)*

*(City, State, and ZIP Code)*

**Extent of Authority** (if licensing agreement):

*Date of Transfer:*

*Signature of grantor:*